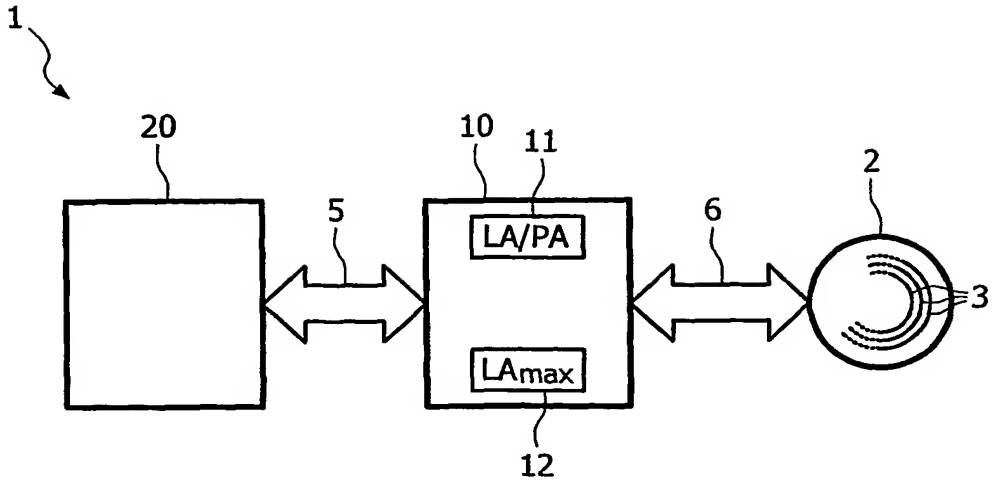

FIG. 1

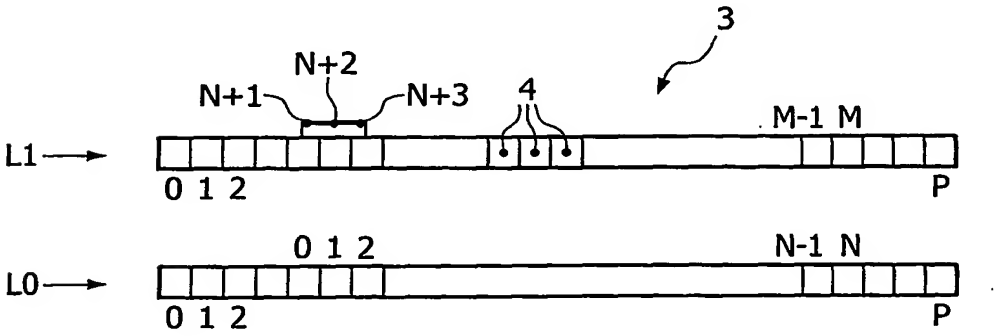

FIG. 2A

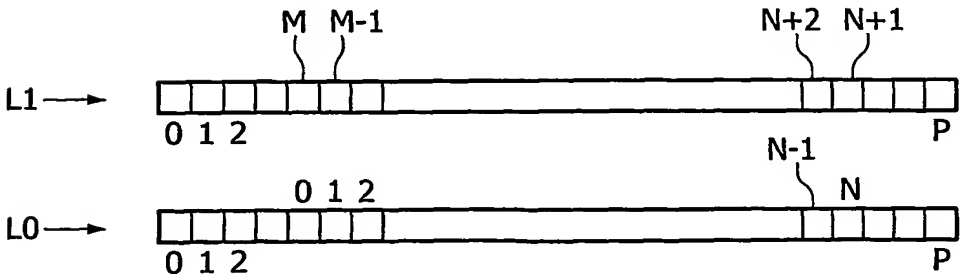

FIG. 2B

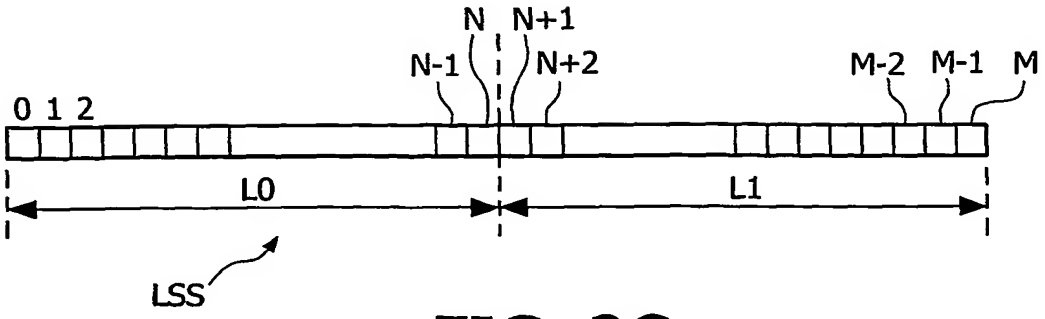

FIG. 2C

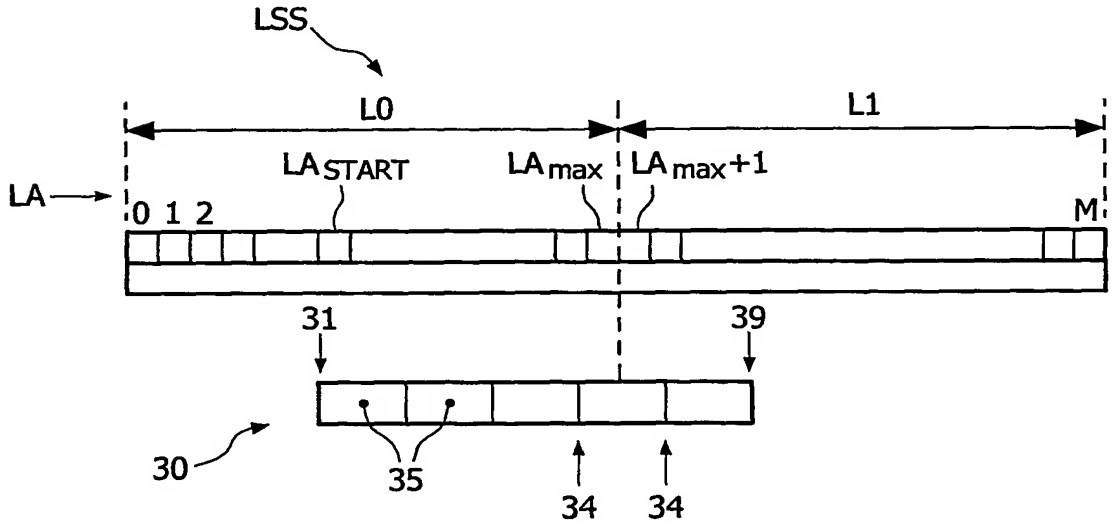

FIG. 3

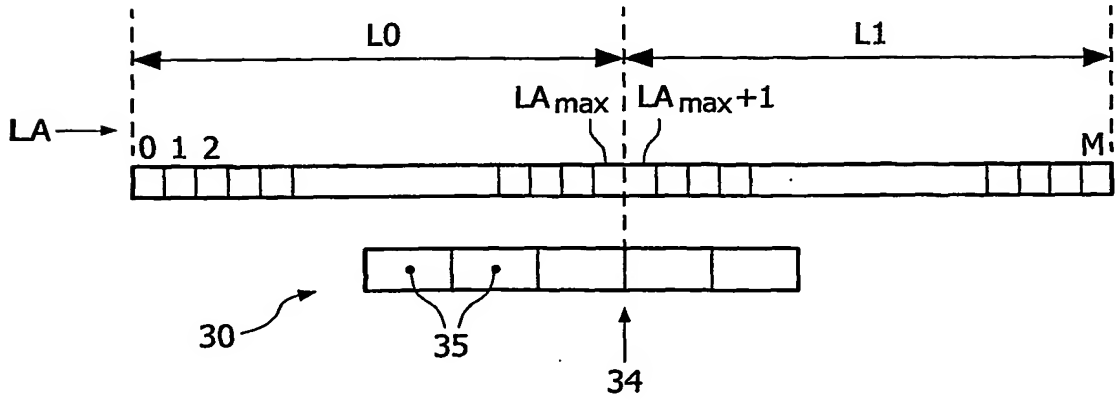

FIG. 4

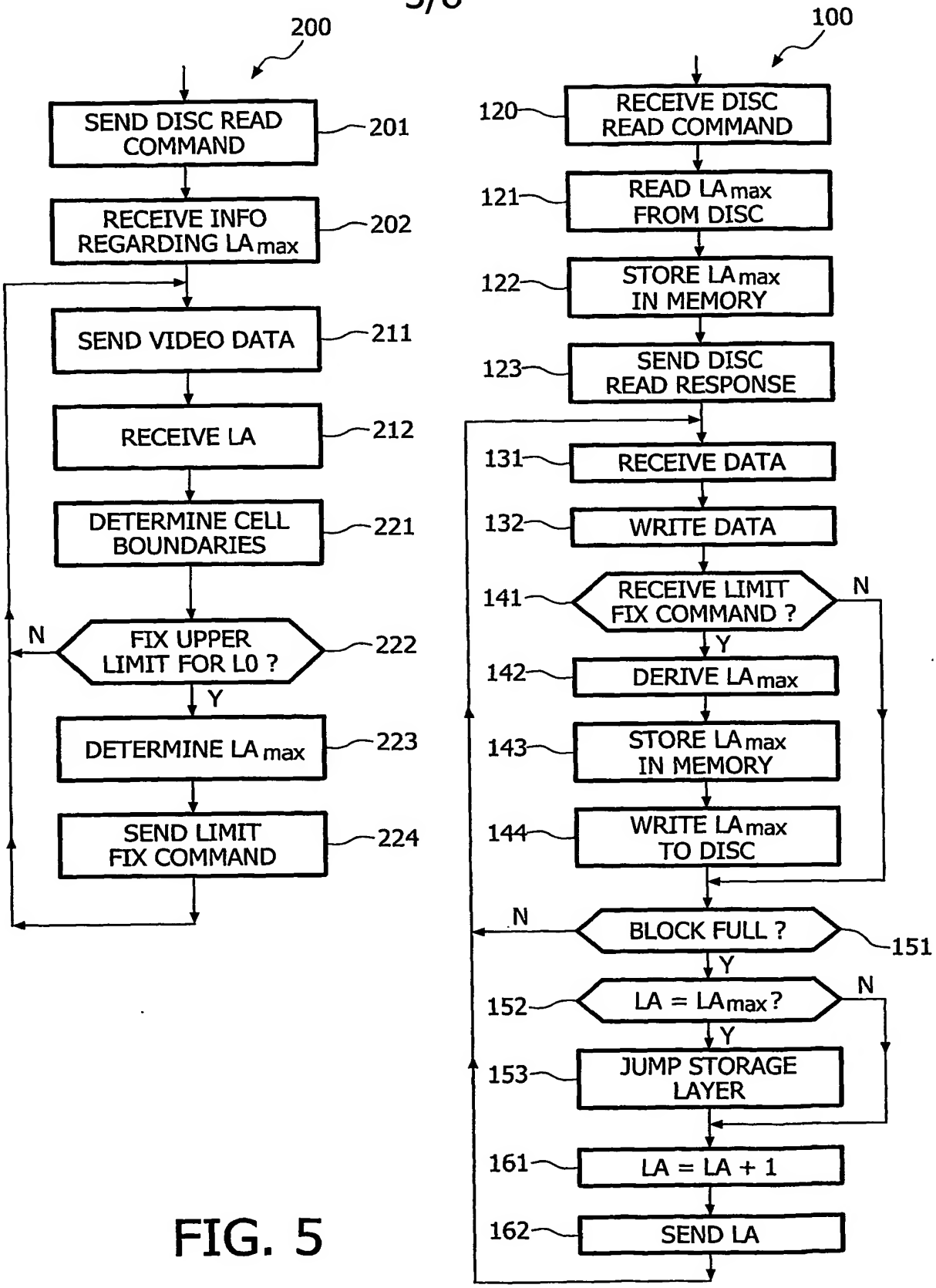
200
SEND DISC READ COMMAND
201
RECEIVE INFO REGARDING LA max
202
SEND VIDEO DATA
211
RECEIVE LA
212
DETERMINE CELL BOUNDARIES
221
FIX UPPER LIMIT FOR L0 ?
222
N
Y
DETERMINE LA max
223
SEND LIMIT FIX COMMAND
224
100
120
RECEIVE DISC READ COMMAND
121
READ LA max FROM DISC
122
STORE LA max IN MEMORY
123
SEND DISC READ RESPONSE
131
RECEIVE DATA
132
WRITE DATA
141
RECEIVE LIMIT FIX COMMAND ?
N
Y
142
DERIVE LA max
143
STORE LA max IN MEMORY
144
WRITE LA max TO DISC
N
BLOCK FULL ?
151
Y
152
LA = LA max ?
N
Y
153
JUMP STORAGE LAYER
161
LA = LA + 1
162
SEND LA

FIG. 5

Table 1 - RESERVE TRACK Command Descriptor Block

Bit / Byte	7	6	5	4	3	2	1	0
0	Operation Code (53h)							
1	Reserved							DL
2	Reserved							
3	Reserved							
4	Reserved							
5	(MSB)							
6	Reservation							
7	Size							
8								(LSB)
9	Control Byte							

FIG. 6

Write Parameters Page

Byte \ Bit	7	6	5	4	3	2	1	0
0	PS	DL	Page Code (05h)					
1	Page Length (32h)							
2	Reserved	BUFE	LS_V	Test Write	Write Type			
3	Multi-session		FP	Copy	Track Mode			
4	Reserved				Data Block Type			
5	Link Size							
6	Reserved							
7	Reserved		Initiator Application Code					
8	Session Format							
9	Reserved							
10	(MSB)							
11	Packet Size							
12								
13								(LSB)
14	(MSB)	Audio Pause Length						
15								(LSB)
16	(MSB)							
17	...							
...	Media Catalog Number							
30	...							
31								(LSB)
32	(MSB)							
33	...							
...	International Standard Recording Code							
46	...							
47								(LSB)
48	Sub-header Byte 0							
49	Sub-header Byte 1							
50	Sub-header Byte 2							
51	Sub-header Byte 3							
52-55	Vendor Specific							

FIG. 7

SEND DVD STRUCTURE Command Descriptor Block

Bit / Byte	7	6	5	4	3	2	1	0
0	Operation Code (BFh)							
1	Reserved				Reserved			
2	Reserved							
3	Reserved							
4	Reserved							
5	Reserved							
6	Reserved							
7	Format Code							
8	(MSB) Structure Data Length							
9								(LSB)
10	Reserved							
11	Control							
12	Addressing Mode							
13	Reserved							
14	(MSB)							
15	Physical Address of the last user sector on L0							
16								(LSB)

FIG. 8

Format Field Definition

Format Code	Data	Description
00h - 03h	Reserved	
04h	User Specific Data	Send User Specific Data to the RMD cache
05h	Copyright Management	Send data to CPR_MAI in data area cache. (CPM, CGMS, ADP_TY)
06h - 0Eh	Reserved	
0Fh	Timestamp	Send Timestamp data to the RMD cache
10h - 1Fh	Reserved	
20h	User Specific Data	Dual Layer Control Information
21h -2Fh	Reserved	
30h	Disc Control Block	Send a Disc Control Block
31h - BFh	Reserved	
C0h	Write Protection	Send PWP status
C1h - FFh	Reserved	

FIG. 9

READ DVD STRUCTURE Command

Bit / Byte	7	6	5	4	3	2	1	0
0	Operation Code (ADh)							
1	Reserved				Reserved			
2	(MSB)							
3	Address							
4								
5								(LSB)
6	Layer Number							
7	Format							
8	(MSB)			Allocation Length				
9								(LSB)
10	AGID				Reserved			
11	Control							

FIG. 10

READ DVD STRUCTURE Data Format (Format field = 20h)

Bit / Byte	7	6	5	4	3	2	1	0
0	(MSB)			DVD STRUCTURE Data Length				
1								(LSB)
2	Reserved							
3	Reserved							
DVD Lead-in Structure								
0	Addressing mode							
1	Reserved							
2	(MSB)							
3	Physical Address of the last user sector on L0							
4								(LSB)

FIG. 11